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**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**



Declaration
Submitted
with Initial
Filing

OR



Declaration
Submitted after Initial
Filing (surcharge
(37 CFR 1.16 (e))
required)

Attorney Docket Number

HES 2000-IP-001143U1

First Named Inventor

B. Raghava Reddy

COMPLETE IF KNOWN

Application Number

Filing Date

Art Unit

Examiner Name

As the below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Methods of Consolidating Formations or Forming Chemical Casing Or Both While Drilling

(Title of the Invention)

the specification of which



is attached hereto

OR



was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

[Page 1 of 2]

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DECLARATION — Utility or Design Patent Application

Direct all correspondence to: ☒

Customer Number
or Bar Code Label



OR ☐ Correspondence address below

28857

PATENT TRADEMARK OFFICE

Name

Address

City

State

ZIP

Country

Telephone

Fax

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR : ☐ A petition has been filed for this unsigned inventor

Given Name B. Raghava
(first and middle [if any])

Family Name Reddy
or Surname

Inventor's
Signature

B. Raghava Reddy

Date 4/29/02

Duncan

Residence: City

OK

State

U.S.

Country

India

Citizenship

Mailing Address 2013 Waverly Drive

Duncan
City

OK

State

73533

ZIP

U.S.

Country

NAME OF SECOND INVENTOR:

☐ A petition has been filed for this unsigned inventor

Given Name Larry S.
(first and middle [if any])

Family Name Eoff
or Surname

Inventor's
Signature

Larry S. Eoff

Date 4/29/02

Duncan

Residence: City

OK

State

U.S.

Country

U.S.

Citizenship

Mailing Address 2201 Cedar

Duncan
City

OK

State

73533

ZIP

U.S.

Country

☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

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DECLARATION**ADDITIONAL INVENTOR(S)**
Supplemental Sheet
Page 1 of 2

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name Donald L.		Family Name Whitfill	
Inventor's Signature <i>Donald L. Whitfill</i>		Date June 10, 2002	
Kingwood Residence: City	TX State	U.S. Country	U.S. Citizenship
2921 Sycamore Springs Dr #105 Mailing Address			
Mailing Address			
Kingwood City	TX State	77379 ZIP	U.S. Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name J. Michael		Family Name Wilson	
Inventor's Signature <i>J. Michael Wilson</i>		Date Apr. 7, 2002	
Duncan Residence: City	OK State	U.S. Country	U.S. Citizenship
4413 Odom Drive Mailing Address			
Mailing Address			
Duncan City	OK State	73533 ZIP	U.S. Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name Denise		Family Name Berryhill	
Inventor's Signature <i>Denise Barbell</i>		Date 4/29/2002	
Duncan Residence: City	OK State	U.S. Country	U.S. Citizenship
P. O. Box 2104 Mailing Address			
Mailing Address			
Duncan City	OK State	73533 ZIP	U.S. Country

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet Page <u>2</u> of <u>2</u>
--------------------	---

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name Russel M.		Family Name or Surname Fitzgerald	
Inventor's Signature <i>Russel M. Fitzgerald</i>		Date <i>April 29, 02</i>	
Waurika Residence: City	OK State	U.S. Country	U.S. Citizenship
605 N. Pine Mailing Address			
Mailing Address			
City Waurika	OK State	73573 ZIP	U.S. Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name Thomas E.		Family Name or Surname Becker	
Inventor's Signature <i>Thomas E. Becker</i>		Date <i>April 26, 2002</i>	
Duncan Residence: City	OK State	U.S. Country	U.S. Citizenship
421 S. 27th, Apt. J-6 Mailing Address			
Mailing Address			
City Duncan	OK State	73533 ZIP	U.S. Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name Jimmie D.		Family Name or Surname Weaver	
Inventor's Signature <i>Jimmie D. Weaver</i>		Date <i>6/3/02</i>	
Duncan Residence: City	OK State	U.S. Country	U.S. Citizenship
Route 4, Box 230 B-1 Mailing Address			
Mailing Address			
City Duncan	OK State	73533 ZIP	U.S. Country

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM

Application Number	
Filing Date	
First Named Inventor	B. Raghava Reddy
Title	Methods of Consolidating ...
Art Unit	
Examiner Name	
Attorney Docket Number	HES 2000-IP-001143U1D1

I hereby appoint:

☐ Practitioners associated with the Customer Number:

OR

☐ Practitioner(s) named below:

Name	Registration Number
see attached	

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☐ The address associated with the above-mentioned Customer Number:

OR

☐ The address associated with Customer Number:

OR

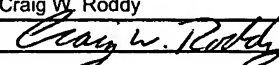
<input type="checkbox"/> Firm or Individual Name			
Address			
Address			
City	State	Zip	
Country			
Telephone	Fax		

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

Name	Craig W. Roddy		
Signature			
Date	11-19-2003	Telephone	580-251-3012

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Please type a plus sign (+) inside this box → ☐

PTO/SB/02C (3-87)

Approved for use through 9/30/98. OMB 0251-0032

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION		REGISTERED PRACTITIONER INFORMATION (Supplemental Sheet)	
Name	Registration Number	Name	Registration Number
Halliburton Energy Services, Inc. Practitioners		McAfee & Taft Practitioners	
William E. Shull	29,438	C. Clark Dougherty, Jr.	24,208
William M. Imwalle	35,904	Clifford C. Dougherty, III	31,607
Robert A. Kent	28,626	Jean L. Pinkston	45,014
Craig W. Roddy	36,256	William D. Hall	35,535
John W. Wustenberg	35,415	Barbara Yuill	54,562

Random Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20521. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20521.

Declaration — Registered Practitioner Information (Supplemental Sheet) (PTO/SB/02C)[1-1.4]

STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: B. Raghava Reddy et al.Application No./Patent No.: unknown Filed/Issue Date: concurrently herewithEntitled: Methods of Consolidating Formations or Forming Chemical Casing or ...Halliburton Energy Services, Inc., a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or2. ☐ an assignee of less than the entire right, title and interest.The extent (by percentage) of its ownership interest is _____ %
in the patent application/patent identified above by virtue of either:A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 013018, Frame 0271, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.☐ Additional documents in the chain of title are listed on a supplemental sheet.☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

11-19-2003

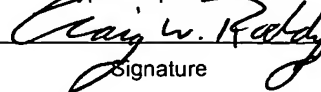
Date

580-251-3012

Telephone number

Craig W. Roddy

Typed or printed name



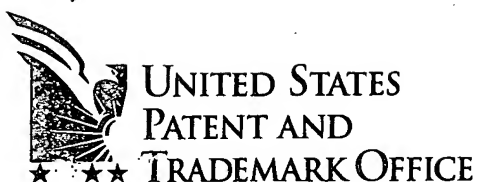
Signature

Senior Counsel

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



AUGUST 26, 2002

HALLIBURTON ENERGY SERVICES
CRAIG W. RODDY
2600 SOUTH SECOND STREET
DUNCAN OK 73536-0440

PTAS
RECEIVED

SEP 03 2002

CRAIG W. RODDY

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov



102135518A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY. SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/13/2002

REEL/FRAME: 013018/0271
NUMBER OF PAGES: 11

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

REDDY, B. RAGHAVA

DOC DATE: 04/29/2002

ASSIGNOR:

EOFF, LARRY S.

DOC DATE: 04/29/2002

ASSIGNOR:

WHITFILL, DONALD L.

DOC DATE: 06/10/2002

ASSIGNOR:

WILSON, J. MICHAEL

DOC DATE: 04/29/2002

ASSIGNOR:

BERRYHILL, DENISE

DOC DATE: 04/29/2002

ASSIGNOR:

FITZGERALD, RUSSELL M.

DOC DATE: 04/29/2002

ASSIGNOR:

BECKER, THOMAS E.

DOC DATE: 04/26/2002

013018/0271 PAGE 2

ASSIGNOR:
WEAVER, JIMMIE D.

DOC DATE: 06/03/2002

ASSIGNEE:
HALLIBURTON ENERGY SERVICES, INC
10200 BELLAIRE BOULEVARD
HOUSTON, TEXAS 77072

SERIAL NUMBER: 10170400
PATENT NUMBER:

FILING DATE: 06/13/2002
ISSUE DATE:

SHAREILL COLES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

06-27-2002

Form PTO-1595
(Rev. 03/01)

R

OMB No. 0651-0027 (exp. 5/31/2002)

Tab settings ⇨ ⇨ ⇨ ▼ ▼ ▼



102135518

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

6-13-02
B. Raghava Reddy; Larry S. Eoff; Donald L. Whitfill
J. Michael Wilson; Denise Berryhill;
Russell M. Fitzgerald; Thomas E. Becker;
Jimmie D. WeaverAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

04/26/02 (Becker)

04/29/02 (Reddy; Eoff; Wilson;
Berryhill; Fitzgerald)Execution Date: 06/03/02 (Weaver)
06/10/02 (Whitfill)

2. Name and address of receiving party(ies)

Name: Halliburton Energy Services, Inc.

Internal Address: _____

Street Address: 10200 Bellaire Boulevard

City: Houston State: TX Zip: 77072

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

10170400
If this document is being filed together with a new application, the execution date of the application is: 05/16/02

A. Patent Application No.(s) _____

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Craig W. Roddy

Internal Address: Halliburton Energy Services

Street Address: 2600 South Second Street

City: Duncan State: OK Zip: 73536-0440

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

08-0300

DO NOT USE THIS SPACE

9. Signature.

Craig W. Roddy

Name of Person Signing

Signature

6-12-2002

Date

Total number of pages including cover sheet, attachments, and documents: 6

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

06/26/2002 6T0H11 00000056 080300 10170400

01 FC:581

40.00 CH

11046 U.S. PTO
10/170400
06/13/02

ASSIGNMENT

Whereas, I/We, B. Raghava Reddy, of Stephens County, Duncan, Oklahoma; Larry S. Eoff, of Stephens County, Duncan, Oklahoma; Donald L. Whitfill, of Harris County, Kingwood, Texas; J. Michael Wilson, of Stephens County, Duncan, Oklahoma; Denise Berryhill, of Stephens County, Duncan, Oklahoma; Russell M. Fitzgerald, of Jefferson County, Waurika, Oklahoma; Thomas E. Becker, of Stephens County, Duncan, Oklahoma and Jimmie D. Weaver, of Stephens County, Duncan, Oklahoma, have invented METHODS OF CONSOLIDATING FORMATIONS OR FORMING CHEMICAL CASING OR BOTH WHILE DRILLING for which I have made application for Letters Patent of the United States; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application first executed on April 26, 2002, submitted concurrently herewith, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed this 29th day of April, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.

B. Raghava Reddy
B. Raghava Reddy

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said B. Raghava Reddy and acknowledged the foregoing
instrument to be his free act and deed this 29th day of April, 2002.

Seal

Sheila Gibbs
(Notary Public)

My Commission Expires: September 13, 2004
Commission Number: 00014119

Executed this 29th day of April, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.

Larry S. Eoff
Larry S. Eoff

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said Larry S. Eoff and acknowledged the foregoing instrument to
be his free act and deed this 29th day of April, 2002.

Seal

Sheila Gibbs

(Notary Public)

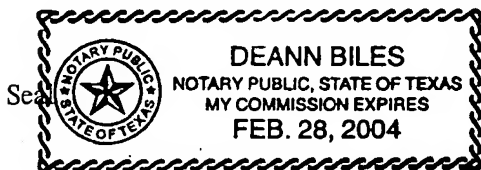
My Commission Expires: September 13, 2004
Commission Number: 00014119

Executed this 10 day of June, 2002, at Houston, Harris County, Texas^{dfw}
~~Duncan, Stephens County, Oklahoma~~
U.S.A.

Donald L. Whitfill
Donald L. Whitfill

State of Texas)
) ss
County of Harris)

Before me personally appeared said Donald L. Whitfill and acknowledged the foregoing instrument to be his free act and deed this 10th day of June, 2002.



Deann Biles
(Notary Public)

Executed this 29th day of April, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.

J. Michael Wilson
J. Michael Wilson

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said J. Michael Wilson and acknowledged the foregoing instrument to be his free act and deed this 29th day of April, 2002.

Seal

Sheila Biles
(Notary Public)

My Commission Expires: September 13, 2004
Commission Number: 00014119

Executed this 29th day of April, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.

Denise Berryhill
Denise Berryhill

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said Denise Berryhill and acknowledged the foregoing instrument
to be his free act and deed this 29th day of April, 2002.

Seal

Sheila Gibbs
(Notary Public)

My Commission Expires: September 13, 2004
Commission Number: 00014119

Executed this 29th day of April, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.

Russell M. Fitzgerald
Russell M. Fitzgerald

State of Oklahoma)
) ss
County of Stephens)

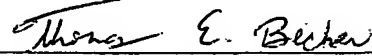
Before me personally appeared said Russell M. Fitzgerald and acknowledged the foregoing
instrument to be his free act and deed this 29th day of April, 2002.

Seal

Sheila Gibbs
(Notary Public)

My Commission Expires: September 13, 2004
Commission Number: 00014119

Executed this 26th day of April, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.

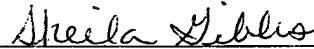


Thomas E. Becker

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said Thomas E. Becker and acknowledged the foregoing
instrument to be his free act and deed this 26th day of April, 2002.

Seal



(Notary Public)

My Commission Expires: September 13, 2004
Commission Number: 00014119

Executed this 3rd day of June, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.

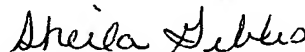


Jimmie D. Weaver

State of Oklahoma)
) ss
County of Stephens)

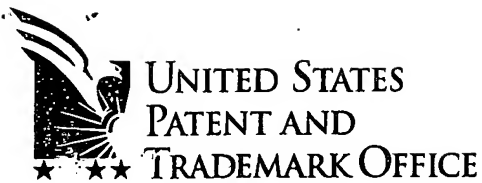
Before me personally appeared said Jimmie D. Weaver and acknowledged the foregoing
instrument to be his free act and deed this 3rd day of June, 2002.

Seal



(Notary Public)

My Commission Expires: September 13, 2004
Commission Number: 00014119



AUGUST 26, 2002

HALLIBURTON ENERGY SERVICES
CRAIG W. RODDY
2600 SOUTH SECOND STREET
DUNCAN OK 73536-0440

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CRAIG W. RODDY

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov



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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY. SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/13/2002

REEL/FRAME: 013018/0271
NUMBER OF PAGES: 11

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

REDDY, B. RAGHAVA

DOC DATE: 04/29/2002

ASSIGNOR:

EOFF, LARRY S.

DOC DATE: 04/29/2002

ASSIGNOR:

WHITFILL, DONALD L.

DOC DATE: 06/10/2002

ASSIGNOR:

WILSON, J. MICHAEL

DOC DATE: 04/29/2002

ASSIGNOR:

BERRYHILL, DENISE

DOC DATE: 04/29/2002

ASSIGNOR:

FITZGERALD, RUSSELL M.

DOC DATE: 04/29/2002

ASSIGNOR:

BECKER, THOMAS E.

DOC DATE: 04/26/2002

ASSIGNOR:
WEAVER, JIMMIE D.

DOC DATE: 06/03/2002

ASSIGNEE:
HALLIBURTON ENERGY SERVICES, INC
10200 BELLAIRE BOULEVARD
HOUSTON, TEXAS 77072

SERIAL NUMBER: 10170400
PATENT NUMBER:

FILING DATE: 06/13/2002
ISSUE DATE:

SHAREILL COLES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

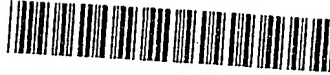
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OMB No. 0651-0027 (exp. 5/31/2002)

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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

6-13-02
B. Raghava Reddy; Larry S. Eoff; Donald L. Whitfill
J. Michael Wilson; Denise Berryhill;
Russell M. Fitzgerald; Thomas E. Becker;
Jimmie D. WeaverAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

04/26/02 (Becker)

04/29/02 (Reddy; Eoff; Wilson;
Berryhill; Fitzgerald)Execution Date: 06/03/02 (Weaver)
06/10/02 (Whitfill)

2. Name and address of receiving party(ies)

Name: Halliburton Energy Services, Inc.

Internal Address: _____

Street Address: 10200 Bellaire Boulevard

City: Houston State: TX Zip: 77072

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

10170400
If this document is being filed together with a new application, the execution date of the application is: 05/16/02

A. Patent Application No.(s) _____

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Craig W. Roddy

Internal Address: Halliburton Energy Services

Street Address: 2600 South Second Street

City: Duncan State: OK Zip: 73536-0440

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

08-0300

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9. Signature.

Craig W. Roddy

Name of Person Signing

Signature

6-12-2002

Date

Total number of pages including cover sheet, attachments, and documents: 6

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

06/26/2002 6TON11 00000056 080300 10170400

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06/13/02

ASSIGNMENT

Whereas, I/We, B. Raghava Reddy, of Stephens County, Duncan, Oklahoma; Larry S. Eoff, of Stephens County, Duncan, Oklahoma; Donald L. Whitfill, of Harris County, Kingwood, Texas; J. Michael Wilson, of Stephens County, Duncan, Oklahoma; Denise Berryhill, of Stephens County, Duncan, Oklahoma; Russell M. Fitzgerald, of Jefferson County, Waurika, Oklahoma; Thomas E. Becker, of Stephens County, Duncan, Oklahoma and Jimmie D. Weaver, of Stephens County, Duncan, Oklahoma, have invented METHODS OF CONSOLIDATING FORMATIONS OR FORMING CHEMICAL CASING OR BOTH WHILE DRILLING for which I have made application for Letters Patent of the United States; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, Texas 77072 is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application first executed on April 26, 2002, submitted concurrently herewith, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed this 29th day of April, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.

B. Raghava Reddy
B. Raghava Reddy

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said B. Raghava Reddy and acknowledged the foregoing
instrument to be his free act and deed this 29th day of April, 2002.

Seal

Sheila Gibbs
(Notary Public)

My Commission Expires: September 13, 2004
Commission Number: 00014119

Executed this 29th day of April, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.

Larry S. Eoff
Larry S. Eoff

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said Larry S. Eoff and acknowledged the foregoing instrument to
be his free act and deed this 29th day of April, 2002.

Seal

Sheila Gibbs
(Notary Public)

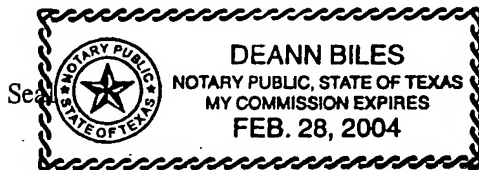
My Commission Expires: September 13, 2004
Commission Number: 00014119

Executed this 10 day of June, 2002, at Houston, Harris County, Texas^{dfw}, ~~Duncan, Stephens County, Oklahoma~~
U.S.A.

Donald L. Whitfill
Donald L. Whitfill

State of Texas)
) ss
County of Harris)

Before me personally appeared said Donald L. Whitfill and acknowledged the foregoing instrument to be his free act and deed this 10th day of June, 2002.



Deann Biles
(Notary Public)

Executed this 29th day of April, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.

J. Michael Wilson
J. Michael Wilson

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said J. Michael Wilson and acknowledged the foregoing instrument to be his free act and deed this 29th day of April, 2002.

Seal

Sheila Gibbs
(Notary Public)

My Commission Expires: September 13, 2004
Commission Number: 00014119

Executed this 29th day of April, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.

Denise Berryhill
Denise Berryhill

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said Denise Berryhill and acknowledged the foregoing instrument
to be his free act and deed this 29th day of April, 2002.

Seal

Sheila Gibbs
(Notary Public)

My Commission Expires: September 13, 2004
Commission Number: 00014119

Executed this 29th day of April, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.

Russell M. Fitzgerald
Russell M. Fitzgerald

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said Russell M. Fitzgerald and acknowledged the foregoing
instrument to be his free act and deed this 29th day of April, 2002.

Seal

Sheila Gibbs
(Notary Public)

My Commission Expires: September 13, 2004
Commission Number: 00014119

Executed this 26th day of April, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.

Thomas E. Becker

Thomas E. Becker

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said Thomas E. Becker and acknowledged the foregoing
instrument to be his free act and deed this 26th day of April, 2002.

Seal

Sheila Gibbs

(Notary Public)

My Commission Expires: September 13, 2004
Commission Number: 00014119

Executed this 3rd day of June, 2002, at Duncan, Stephens County, Oklahoma
U.S.A.

Jimmie D. Weaver
Jimmie D. Weaver

State of Oklahoma)
) ss
County of Stephens)

Before me personally appeared said Jimmie D. Weaver and acknowledged the foregoing
instrument to be his free act and deed this 3rd day of June, 2002.

Seal

Sheila Gibbs

(Notary Public)

My Commission Expires: September 13, 2004
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